

CLAIMS

1. Disc saw blade (2) with a saw chain (12) mounted around the circumference of a circular disk (4), which saw chain (12) is provided with driving links (6), connecting links (8) and cutting links (10), characterized in that the chain is guided by means of the driving links (6) in at least one chain groove (14) arranged around the periphery of the disk, against the bottom (18) of which groove, a part (22) of each driving link that projects radially inwards can make contact, in that the bottom (18) of the groove has radial projections (20) distributed around the circumference and the driving link has a cam surface (24) on the part (22) that projects radially inwards for interaction with the respective radial projection (20), and in that the chain (12) can move from a neutral position, in which the chain is loosely mounted around the circumference (5) of the disk and the part (22) of the respective driving link that projects inwards is loosely inserted between two adjacent radial projections (20), to a working position, in which the chain is tensioned around the circumference (5) of the disk and the cam surface (24) on the respective driving link is in contact with the associated radial projection (20).
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2. Disc saw blade according to Claim 1, characterized in that the cam surface (24) on each driving link (6) is designed to press the chain (12) radially outwards against the radial projection (20) by the cam effect, in such a way that, in a tensioned state, the chain is held onto the disk (4) as a result of its shape.
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3. Disc saw blade according to Claim 1 or 2, characterized in that the length of the saw chain (12) is matched to the radius r_o of the disk (4), so that,

when the saw chain is mounted, a radius r_{id} to the part (22) of each driving link (6) in the chain that projects radially inwards is larger than a radius r_{sb} to the bottom 18 of the groove (14) and less than a radius r_u to each projection (20).

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4. Disc saw blade according to any one of Claims 1-3, characterized in that the bottom (18) of the groove has a predetermined number of projections (20) distributed evenly around the circumference (5) of the disk.

- 10 5. Disc saw blade according to any one of Claims 1-3, characterized in that the bottom (18) of the groove has one projection (20) for each driving link (6).

- 15 6. Disc saw blade according to any one of the previous claims, characterized in that in radial cross-section each projection (20) is lug shaped.

7. Disc saw blade according to any one of the previous claims, characterized in that in radial cross-section each projection (20) is pyramid shaped.

- 20 8. Disc saw blade according to any one of the previous claims, characterized in that in radial cross-section each projection (20) is dome shaped.

- 25 9. Disc saw blade according to any one of Claims 1-4, characterized in that in radial cross-section each projection (20) is designed as a truncated cone, that has a complementary shape to the cam surface (24) of the interacting driving link (6).

10. Disc saw blade according to any one of the previous claims, characterized in that, for a disk (4) with several saw chains (12) that run parallel, a corresponding chain groove (14) is formed in the disk for each saw chain.